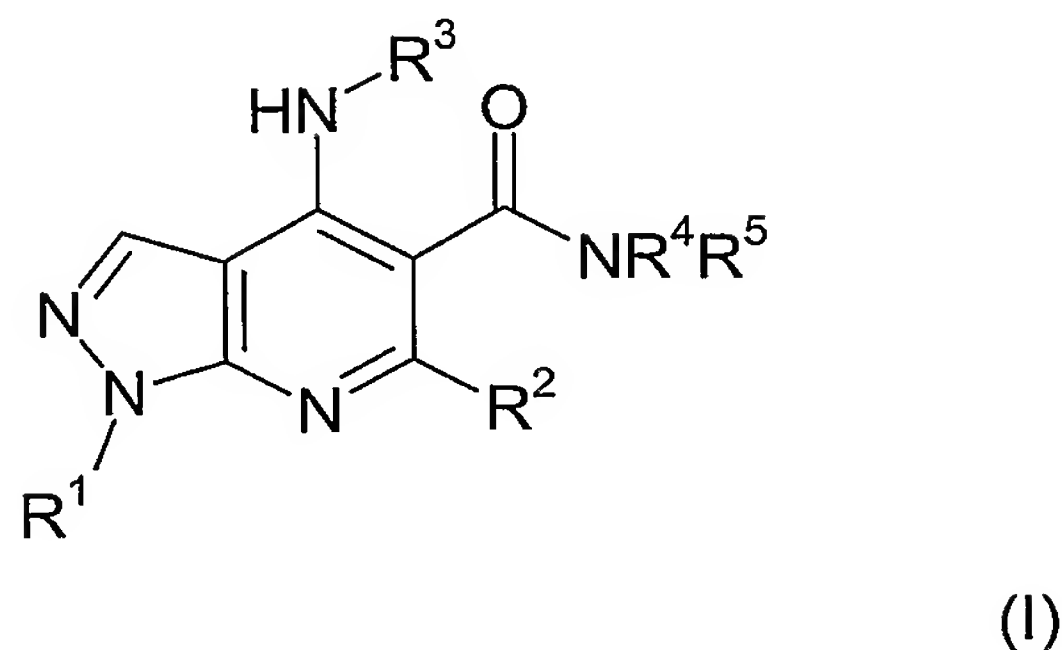


## CLAIMS

1. A compound of formula (I) or a salt thereof:



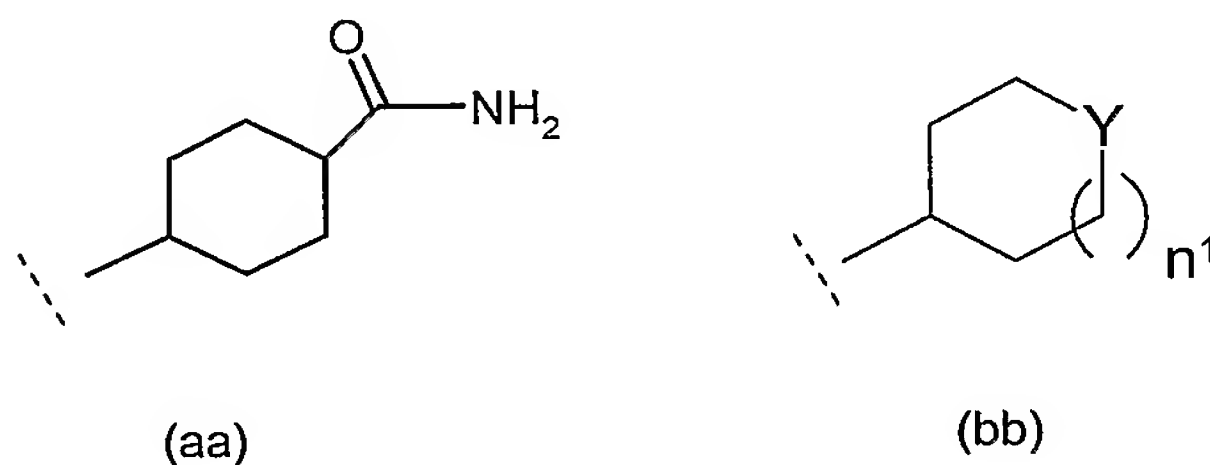
5 wherein:

$R^1$  is  $C_{1-3}$ alkyl,  $C_{1-3}$ fluoroalkyl, or  $-CH_2CH_2OH$ ;

10  $R^2$  is a hydrogen atom (H), methyl or  $C_1$  fluoroalkyl;

$R^3$  is a 4-(aminocarbonyl)cyclohexyl (i.e. 4-(aminocarbonyl)cyclohexan-1-yl) group of sub-formula (aa), or an N-aminocarbonyl-piperidinyl or -pyrrolidinyl group of sub-

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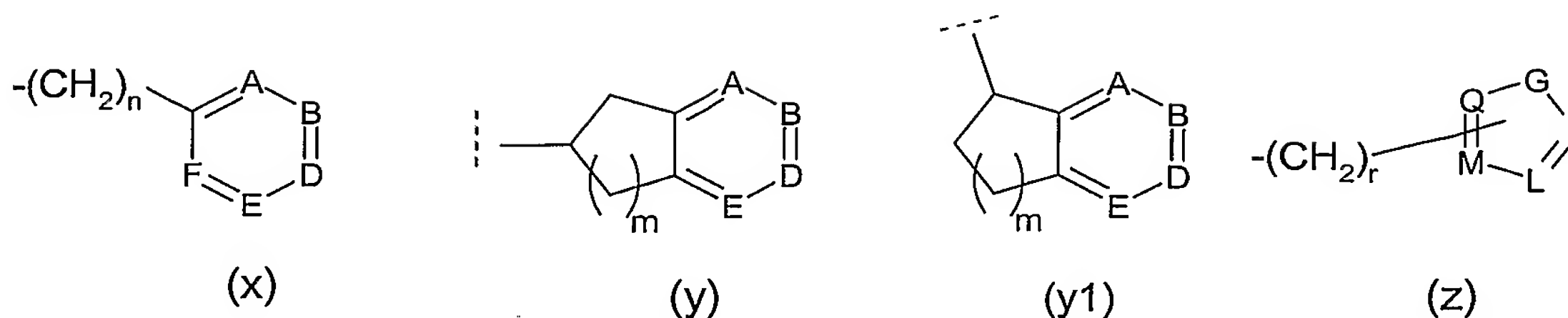


wherein Y is  $NCONH_2$  and  $n^1$  is 0 or 1;

20 and wherein the cyclohexyl group of sub-formula (aa) or the piperidinyl or pyrrolidinyl groups of sub-formula (bb) is not further substituted on any ring carbon;  
 $R^4$  is a hydrogen atom (H);

$R^5$  is a group of the sub-formula (x), (y), (y1) or (z):

25



wherein in sub-formula (x),  $n = 0, 1$  or  $2$ ; in sub-formula (y) and (y1),  $m = 1$  or  $2$ ; and in sub-formula (z),  $r = 0, 1$  or  $2$ ;

5

wherein in sub-formula (x) and (y) and (y1), none, one or two of A, B, D, E and F are nitrogen; and the remaining of A, B, D, E and F are independently CH or CR<sup>6</sup>;

wherein, each R<sup>6</sup>, independently of any other R<sup>6</sup> present, is: a halogen atom; C<sub>1-6</sub>alkyl ;

10 C<sub>1-4</sub>fluoroalkyl; C<sub>1-4</sub>alkoxy; C<sub>1-2</sub>fluoroalkoxy; C<sub>3-6</sub>cycloalkyloxy; -C(O)R<sup>16a</sup>;  
 -C(O)OR<sup>30</sup>; -S(O)<sub>2</sub>-R<sup>16a</sup>; R<sup>16a</sup>-S(O)<sub>2</sub>-NR<sup>15a</sup>-; R<sup>7</sup>R<sup>8</sup>N-S(O)<sub>2</sub>-;  
 C<sub>1-2</sub>alkyl-C(O)-R<sup>15a</sup>N-S(O)<sub>2</sub>-; C<sub>1-4</sub>alkyl-S(O)-, Ph-S(O)-, R<sup>7</sup>R<sup>8</sup>N-CO-;  
 -NR<sup>15</sup>-C(O)R<sup>16a</sup>; R<sup>7</sup>R<sup>8</sup>N; OH; C<sub>1-4</sub>alkoxymethyl; C<sub>1-4</sub>alkoxyethyl;  
 C<sub>1-2</sub>alkyl-S(O)<sub>2</sub>-CH<sub>2</sub>-; R<sup>7</sup>R<sup>8</sup>N-S(O)<sub>2</sub>-CH<sub>2</sub>-; C<sub>1-2</sub>alkyl-S(O)<sub>2</sub>-NR<sup>15a</sup>-CH<sub>2</sub>-;  
 15 -CH<sub>2</sub>-OH; -CH<sub>2</sub>CH<sub>2</sub>-OH; -CH<sub>2</sub>-NR<sup>7</sup>R<sup>8</sup>; -CH<sub>2</sub>-CH<sub>2</sub>-NR<sup>7</sup>R<sup>8</sup>; -CH<sub>2</sub>-C(O)OR<sup>30</sup>;  
 -CH<sub>2</sub>-C(O)-NR<sup>7</sup>R<sup>8</sup>; -CH<sub>2</sub>-NR<sup>15a</sup>-C(O)-C<sub>1-3</sub>alkyl; -(CH<sub>2</sub>)<sub>n</sub><sup>14</sup>-Het<sup>1</sup> where n<sup>14</sup> is 0 or 1;  
 cyano (CN); Ar<sup>5b</sup>; or phenyl, pyridinyl or pyrimidinyl wherein the phenyl, pyridinyl or  
 pyrimidinyl independently are optionally substituted by one or two of fluoro, chloro,  
 C<sub>1-2</sub>alkyl, C<sub>1</sub>fluoroalkyl, C<sub>1-2</sub>alkoxy or C<sub>1</sub>fluoroalkoxy;

20

or where two adjacent R<sup>6</sup> taken together are -O-(CMe<sub>2</sub>)-O- or -O-(CH<sub>2</sub>)<sub>n</sub><sup>14a</sup>-O-  
 where n<sup>14a</sup> is 1 or 2;

wherein sub-formula (y) and (y1), independently, are optionally substituted by oxo (=O)  
 25 at a ring carbon adjacent the 6-membered aromatic ring;

wherein in sub-formula (z), G is O or S or NR<sup>9</sup> wherein R<sup>9</sup> is a hydrogen atom (H),  
 C<sub>1-4</sub>alkyl or C<sub>1-4</sub>fluoroalkyl; none, one, two or three of J, L, M and Q are nitrogen; and  
 the remaining of J, L, M and Q are independently CH or CR<sup>6</sup> where R<sup>6</sup>, independently of  
 30 any other R<sup>6</sup> present, is as defined herein;

and wherein:

R<sup>7</sup> and R<sup>8</sup> are independently a hydrogen atom (H); C<sub>1-4</sub>alkyl; C<sub>3-6</sub>cycloalkyl; or  
 phenyl optionally substituted by one or two substituents independently being: fluoro,  
 35 chloro, C<sub>1-2</sub>alkyl, C<sub>1</sub>fluoroalkyl, C<sub>1-2</sub>alkoxy or C<sub>1</sub>fluoroalkoxy;

or R<sup>7</sup> and R<sup>8</sup> together are -(CH<sub>2</sub>)<sub>n</sub><sup>6</sup>- or -C(O)-(CH<sub>2</sub>)<sub>n</sub><sup>7</sup>- or -C(O)-(CH<sub>2</sub>)<sub>n</sub><sup>10</sup>-C(O)- or -(CH<sub>2</sub>)<sub>n</sub><sup>8</sup>-X<sup>7</sup>-(CH<sub>2</sub>)<sub>n</sub><sup>9</sup>- or -C(O)-X<sup>7</sup>-(CH<sub>2</sub>)<sub>n</sub><sup>10</sup>- in which: n<sup>6</sup> is 3, 4, 5 or 6, n<sup>7</sup> is 2, 3, 4, or 5, n<sup>8</sup> and n<sup>9</sup> and n<sup>10</sup> independently are 2 or 3, and X<sup>7</sup> is O or NR<sup>14</sup>;

5

R<sup>7a</sup> is a hydrogen atom (H) or C<sub>1-4</sub>alkyl;

R<sup>8a</sup> is a hydrogen atom (H) or methyl;

10 R<sup>14</sup>, independent of other R<sup>14</sup>, is a hydrogen atom (H); C<sub>1-4</sub>alkyl; C<sub>1-2</sub>fluoroalkyl; cyclopropyl; -C(O)-C<sub>1-4</sub>alkyl; -C(O)NR<sup>7a</sup>R<sup>8a</sup>; or -S(O)<sub>2</sub>-C<sub>1-4</sub>alkyl;

R<sup>15</sup>, independent of other R<sup>15</sup>, is a hydrogen atom (H); C<sub>1-4</sub>alkyl; C<sub>3-6</sub>cycloalkyl; or phenyl optionally substituted by one or two of: a halogen atom, C<sub>1-2</sub>alkyl, C<sub>1</sub>fluoroalkyl,  
15 C<sub>1-2</sub>alkoxy or C<sub>1</sub>fluoroalkoxy;

R<sup>15a</sup>, independent of other R<sup>15a</sup>, is a hydrogen atom (H) or C<sub>1-4</sub>alkyl;

20 R<sup>16a</sup> is:  
C<sub>1-6</sub>alkyl;  
C<sub>3-6</sub>cycloalkyl optionally substituted by one oxo (=O), OH or C<sub>1-2</sub>alkyl substituent;  
C<sub>3-6</sub>cycloalkyl-CH<sub>2</sub>-;

pyridinyl optionally substituted on a ring carbon atom by one of: a halogen atom, C<sub>1-2</sub>alkyl, C<sub>1</sub>fluoroalkyl, C<sub>1-2</sub>alkoxy or C<sub>1</sub>fluoroalkoxy;

25 Ar<sup>5c</sup>;  
phenyl optionally substituted by one or two substituents independently being: a halogen atom, C<sub>1-2</sub>alkyl, C<sub>1</sub>fluoroalkyl, C<sub>1-2</sub>alkoxy or C<sub>1</sub>fluoroalkoxy;  
benzyl optionally substituted on its ring by one or two substituents independently being: a halogen atom, C<sub>1-2</sub>alkyl, C<sub>1</sub>fluoroalkyl, C<sub>1-2</sub>alkoxy or C<sub>1</sub>fluoroalkoxy; or

30 a 4-, 5-, 6- or 7-membered saturated heterocyclic ring connected at a ring-carbon and containing one or two ring-hetero-atoms independently selected from O, S, and N; wherein any ring-nitrogens which are present are present as NR<sup>27</sup> where R<sup>27</sup> is H, C<sub>1-2</sub>alkyl or -C(O)Me; and wherein the ring is optionally substituted at carbon by one C<sub>1-2</sub>alkyl or oxo (=O) substituent, provided that any oxo (=O) substituent is substituted  
35 at a ring-carbon atom bonded to a ring-nitrogen;

R<sup>30</sup>, independent of other R<sup>30</sup>, is a hydrogen atom (H), C<sub>1-4</sub>alkyl or C<sub>3-6</sub>cycloalkyl;

40 Ar<sup>5b</sup> and Ar<sup>5c</sup> independently is/are a 5-membered aromatic heterocyclic ring containing one O, S or NR<sup>15a</sup> in the 5-membered ring, wherein the 5-membered ring can optionally

additionally contain one or two N atoms, and wherein the heterocyclic ring is optionally substituted on a ring carbon atom by one of: a halogen atom, C<sub>1-2</sub>alkyl, C<sub>1</sub>fluoroalkyl, -CH<sub>2</sub>OH, -CH<sub>2</sub>-OC<sub>1-2</sub>alkyl, OH (including the keto tautomer thereof) or -CH<sub>2</sub>-NR<sup>28</sup>R<sup>29</sup> wherein R<sup>28</sup> and R<sup>29</sup> independently are H or methyl; and

5

Het<sup>1</sup> is a 4-, 5-, 6- or 7-membered saturated heterocyclic ring connected at a ring-carbon and containing one or two ring-hetero-atoms independently selected from O, S, and N; wherein any ring-nitrogens which are present are present as NR<sup>31</sup> where R<sup>31</sup> is H, C<sub>1-2</sub>alkyl or -C(O)Me; and wherein the ring is optionally substituted at carbon by one  
 10 C<sub>1-2</sub>alkyl or oxo (=O) substituent, provided that any oxo (=O) substituent is substituted at a ring-carbon atom bonded to a ring-nitrogen.

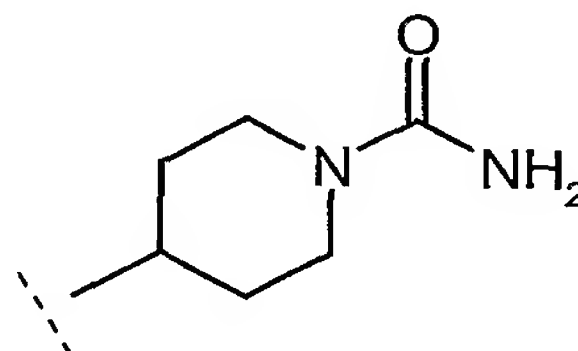
2. A compound or salt as claimed in claim 1, wherein R<sup>1</sup> is C<sub>2-3</sub>alkyl,  
 15 C<sub>2</sub>fluoroalkyl or -CH<sub>2</sub>CH<sub>2</sub>OH.

3. A compound or salt as claimed in claim 2, wherein R<sup>1</sup> ethyl.

4. A compound or salt as claimed in claim 1, 2 or 3, wherein R<sup>2</sup> is a hydrogen atom  
 20 (H).

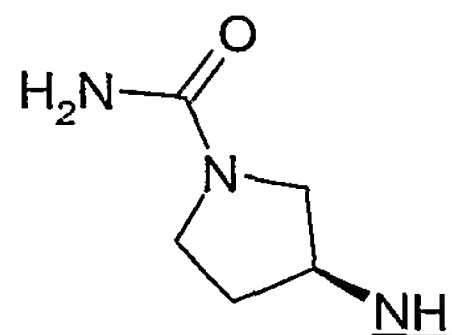
5. A compound or salt as claimed in claim 1, 2, 3 or 4, wherein:

R<sup>3</sup> is a group of sub-formula (bb) and is



, or

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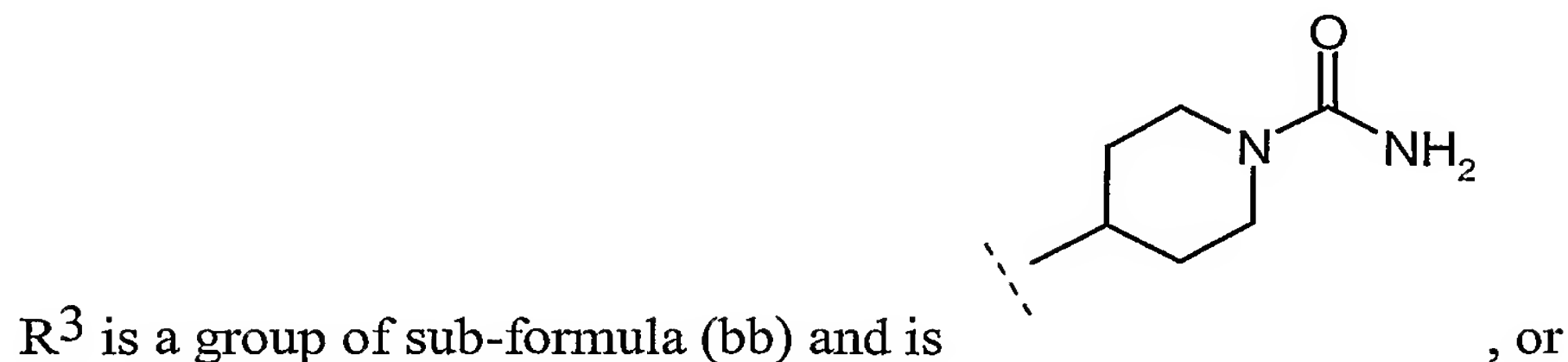


NHR<sup>3</sup> is (wherein the -NH- connection point is underlined, and including mixtures of configurations wherein the illustrated configuration is the major component), or

30 NHR<sup>3</sup> is a *cis*-[4-(aminocarbonyl)cyclohexan-1-yl]amino group (including mixtures of configurations wherein the stated *cis* configuration is the major component), or

NHR<sup>3</sup> is a racemic [4-(aminocarbonyl)cyclohexan-1-yl]amino group.

6. A compound or salt as claimed in claim 5, wherein:



5 NHR<sup>3</sup> is a *cis*-[4-(aminocarbonyl)cyclohexan-1-yl]amino group (including mixtures of configurations wherein the stated *cis* configuration is the major component).

7. A compound or salt as claimed in claim 6, wherein R<sup>3</sup> is a group of sub-formula (bb) and is:



8. A compound or salt as claimed in any preceding claim, wherein:

15 R<sup>7</sup> and R<sup>8</sup> independently are a hydrogen atom (H) or C<sub>1-2</sub>alkyl; or R<sup>7</sup> and R<sup>8</sup> together are -(CH<sub>2</sub>)<sub>n</sub><sup>6</sup>- or -(CH<sub>2</sub>)<sub>n</sub><sup>8</sup>-X<sup>7</sup>-(CH<sub>2</sub>)<sub>n</sub><sup>9</sup>- wherein X<sup>7</sup> is NR<sup>14</sup> or O, n<sup>6</sup> is 4 or 5, and n<sup>8</sup> and n<sup>9</sup> are both 2;

R<sup>14</sup> is H, C<sub>1-2</sub>alkyl, or -C(O)Me;

20

R<sup>15</sup>, independent of other R<sup>15</sup>, is a hydrogen atom (H) or C<sub>1-2</sub>alkyl;

R<sup>15a</sup> is a hydrogen atom (H) or C<sub>1-2</sub>alkyl; and

25 R<sup>16a</sup> is C<sub>1-4</sub>alkyl,

9. A compound or salt as claimed in any preceding claim, wherein R<sup>5</sup> is a group of sub-formula (x) or (z).

30 10. A compound or salt as claimed in any preceding claim, wherein when R<sup>5</sup> has the sub-formula (z),  
none, one or two of J, L, M and Q are nitrogen,

one or none of J, L, M or Q is CR<sup>6</sup>,  
 R<sup>9</sup> is a hydrogen atom (H) or methyl,  
 r is 1,

5 and, for sub-formula (z), R<sup>6</sup> is independently OH (including any keto tautomer thereof),  
 or C<sub>1-2</sub>alkyl or C<sub>1</sub>fluoroalkyl.

11. A compound or salt as claimed in any preceding claim, wherein R<sup>5</sup> is a group of  
 sub-formula (x), and in sub-formula (x), none or one of A, B, D, E and F are nitrogen;  
 none, one or two of A, B, D, E and F are CR<sup>6</sup>; and the remaining of A, B, D, E and F are  
 10 CH.

12. A compound or salt as claimed in claim 11, wherein R<sup>5</sup> has the sub-formula (x), n  
 is 1 and each of A, B, D, E and F is independently CH or CR<sup>6</sup>.

13. A compound or salt as claimed in claim 11, wherein R<sup>5</sup> is a group of sub-formula  
 (x) and is benzyl optionally substituted on the phenyl ring with one or two R<sup>6</sup>  
 substituents.

14. A compound or salt as claimed in any preceding claim, wherein, in sub-formula  
 (x), (y), (y1) and (z), each R<sup>6</sup>, independently of any other R<sup>6</sup> present, is a fluorine,  
 20 chlorine, bromine or iodine atom, methyl, ethyl, n-propyl, isopropyl, isobutyl,  
 trifluoromethyl, -CH<sub>2</sub>OH, methoxy, ethoxy, C<sub>1</sub>fluoroalkoxy, C<sub>1-3</sub>alkylS(O)<sub>2</sub>-,  
 C<sub>1-3</sub>alkylS(O)<sub>2</sub>-NH-, Me<sub>2</sub>N-S(O)<sub>2</sub>-, H<sub>2</sub>N-S(O)<sub>2</sub>-, -CONH<sub>2</sub>, or C<sub>1-3</sub>alkylS(O)<sub>2</sub>-CH<sub>2</sub>-.

15. A compound or salt as claimed in any preceding claim, wherein, in sub-formula  
 (x), (y), (y1) and (z), each R<sup>6</sup>, independently of any other R<sup>6</sup> present, is a fluorine,  
 25 chlorine or bromine atom, methyl, ethyl, n-propyl, isopropyl, trifluoromethyl, -CH<sub>2</sub>OH,  
 methoxy, difluoromethoxy, methylsulphonyl, methyl-SO<sub>2</sub>-NH- or methyl-SO<sub>2</sub>-CH<sub>2</sub>-.

16. A compound or salt as claimed in any preceding claim, wherein R<sup>5</sup> has the sub-  
 formula (x) and is: benzyl, (monoalkyl-phenyl)methyl,  
 [mono(fluoroalkyl)-phenyl]methyl, (monohalo-phenyl)methyl, (monoalkoxy-  
 phenyl)methyl, [mono(fluoroalkoxy)-phenyl]methyl, [mono(N,N-  
 dimethylamino)-phenyl]methyl, [mono(methyl-SO<sub>2</sub>-NH-)-phenyl]methyl,  
 35 [mono(methyl-SO<sub>2</sub>-)-phenyl]methyl, (dialkyl-phenyl)methyl, (monoalkyl-monohalo-  
 phenyl)methyl, [mono(fluoroalkyl)-monohalo-phenyl]methyl, (dihalo-phenyl)methyl,  
 (dihalo-monoalkyl-phenyl)methyl, [dihalo-mono(hydroxymethyl)-phenyl]methyl, or  
 (dialkoxy-phenyl)methyl.

17. A compound or salt as claimed in claim 16, wherein R<sup>5</sup> is:  
 (monoC<sub>1-3</sub>alkyl-phenyl)methyl;



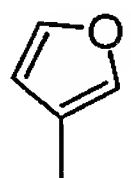
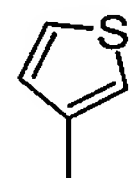
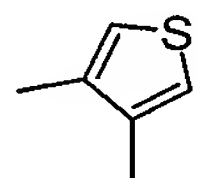
- (monoC<sub>1</sub> fluoroalkyl-phenyl)methyl;  
 (monoC<sub>1-2</sub>alkoxy-phenyl)methyl;  
 [mono(C<sub>1</sub> fluoroalkoxy)-phenyl]methyl;  
 (diC<sub>1-2</sub>alkyl-phenyl)methyl;  
 5 (monoC<sub>1-2</sub>alkyl-monohalo-phenyl)methyl;  
 (dihalo-phenyl)methyl;  
 (dihalo-monoC<sub>1-2</sub>alkyl-phenyl)methyl; or  
 [dihalo-mono(hydroxymethyl)-phenyl]methyl.

- 10 18. A compound or salt as claimed in claim 13, wherein R<sup>5</sup> is of sub-formula (x) and is: benzyl optionally substituted on the phenyl ring with one or two R<sup>6</sup> substituents; wherein one of the R<sup>6</sup> is: Ar<sup>5b</sup>, or phenyl or pyridinyl wherein the phenyl or pyridinyl independently are optionally substituted by one of fluoro, chloro, C<sub>1-2</sub>alkyl, C<sub>1</sub> fluoroalkyl, C<sub>1-2</sub>alkoxy or C<sub>1</sub> fluoroalkoxy; and wherein Ar<sup>5b</sup> is a 5-membered  
 15 aromatic heterocyclic ring containing one O, S or NR<sup>15a</sup> in the 5-membered ring, wherein the 5-membered ring can optionally additionally contain one N atom, and wherein the heterocyclic ring is optionally substituted on a ring carbon atom by one of C<sub>1-2</sub>alkyl or C<sub>1</sub> fluoroalkyl.

- 20 19. A compound or salt as claimed in claim 18, wherein:

in sub-formula (x), A is CR<sup>6</sup>, wherein the R<sup>6</sup> at position A is the Ar<sup>5b</sup> or the optionally substituted phenyl or pyridinyl, and

- 25 when the R<sup>6</sup> at position A is optionally substituted phenyl or pyridinyl, it is phenyl or pyridinyl independently optionally substituted at the 3- or 4-position by one of fluoro, chloro, C<sub>1-2</sub>alkyl, C<sub>1</sub> fluoroalkyl, C<sub>1-2</sub>alkoxy or C<sub>1</sub> fluoroalkoxy; and

when the R<sup>6</sup> at position A is Ar<sup>5b</sup> then it is , , or .

30

20. A compound or salt as claimed in any preceding claim, which is not 4- {[1-(aminocarbonyl)-4-piperidinyl]amino}-N-[(3,4-dimethylphenyl)methyl]-1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide or a salt thereof.

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21. A compound or salt as claimed in claim 1, which is:

- 4- {[1-(aminocarbonyl)-4-piperidiny]amino} -N- [(2,4-dimethylphenyl)methyl] -1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[1-(aminocarbonyl)-4-piperidiny]amino} -1-ethyl-N- {[4-(methyloxy)phenyl]methyl} -1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
5 4- {[4-(aminocarbonyl)cyclohexyl]amino} -N- [(3,4-dimethylphenyl)methyl] -1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[4-(aminocarbonyl)cyclohexyl]amino} -N- [(2,4-dimethylphenyl)methyl] -1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[*cis*-4-(aminocarbonyl)cyclohexyl]amino} -N- [(3,4-dimethylphenyl)methyl] -1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
10 4- {[1-(aminocarbonyl)-4-piperidiny]amino} -N- [(2,4-difluorophenyl)methyl] -1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[1-(aminocarbonyl)-4-piperidiny]amino} -1-ethyl-N- {[4-(trifluoromethyl)phenyl]methyl} -1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
15 4- {[1-(aminocarbonyl)-4-piperidiny]amino} -1-ethyl-N- [(4-hydroxyphenyl)methyl] -1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[1-(aminocarbonyl)-4-piperidiny]amino} -1-ethyl-N- (phenylmethyl) -1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[1-(aminocarbonyl)-4-piperidiny]amino} -1-ethyl-N- {[2-(methylsulfonyl)phenyl]methyl} -1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
20 4- {[1-(aminocarbonyl)-4-piperidiny]amino} -1-ethyl-N- [(3-hydroxyphenyl)methyl] -1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[1-(aminocarbonyl)-4-piperidiny]amino} -N- [(2,3-dichlorophenyl)methyl] -1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
25 4- {[1-(aminocarbonyl)-4-piperidiny]amino} -N- [(2,3-dimethylphenyl)methyl] -1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[1-(aminocarbonyl)-4-piperidiny]amino} -N- (2-biphenylylmethyl) -1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[1-(aminocarbonyl)-4-piperidiny]amino} -N- [(4-chloro-2-fluorophenyl)methyl] -1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
30 4- {[1-(aminocarbonyl)-4-piperidiny]amino} -N- ( {4-[(difluoromethyl)oxy]phenyl} methyl) -1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[1-(aminocarbonyl)-4-piperidiny]amino} -N- [(4-chloro-2-methylphenyl)methyl] -1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
35 4- {[1-(aminocarbonyl)-4-piperidiny]amino} -N- [(4'-chloro-4-biphenylyl)methyl] -1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[1-(aminocarbonyl)-4-piperidiny]amino} -1-ethyl-N- {[4-(methylsulfonyl)phenyl]methyl} -1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
40 4- {[1-(aminocarbonyl)-4-piperidiny]amino} -1-ethyl-N- {[4'-(trifluoromethyl)-2-biphenylyl]methyl} -1H-pyrazolo[3,4-b]pyridine-5-carboxamide,



- 4- {[1-(aminocarbonyl)-4-piperidinyl]amino}-N-[(4-chlorophenyl)methyl]-1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[1-(aminocarbonyl)-4-piperidinyl]amino}-N-(4-biphenylylmethyl)-1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
5 4- {[1-(aminocarbonyl)-4-piperidinyl]amino}-1-ethyl-N-{[4'-(ethyloxy)-4-biphenylyl]methyl}-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[1-(aminocarbonyl)-4-piperidinyl]amino}-N-(3-biphenylylmethyl)-1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[1-(aminocarbonyl)-4-piperidinyl]amino}-1-ethyl-N-{[4'-(trifluoromethyl)-4-biphenylyl]methyl}-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
10 4- {[1-(aminocarbonyl)-4-piperidinyl]amino}-1-ethyl-N-[(3'-methyl-2-biphenylyl)methyl]-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[1-(aminocarbonyl)-4-piperidinyl]amino}-1-ethyl-N-{[3'-(methyloxy)-2-biphenylyl]methyl}-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
15 4- {[1-(aminocarbonyl)-4-piperidinyl]amino}-N-[(3'-chloro-2-biphenylyl)methyl]-1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[1-(aminocarbonyl)-4-piperidinyl]amino}-N-[(4'-chloro-2-biphenylyl)methyl]-1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[1-(aminocarbonyl)-4-piperidinyl]amino}-1-ethyl-N-[(4'-methyl-2-biphenylyl)methyl]-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
20 4- {[1-(aminocarbonyl)-4-piperidinyl]amino}-1-ethyl-N-{[4'-(methyloxy)-2-biphenylyl]methyl}-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[1-(aminocarbonyl)-4-piperidinyl]amino}-1-ethyl-N-{[2-(3-furanyl)phenyl]methyl}-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
25 4- {[1-(aminocarbonyl)-4-piperidinyl]amino}-1-ethyl-N-({2-[6-(methyloxy)-3-pyridinyl]phenyl}methyl)-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[1-(aminocarbonyl)-4-piperidinyl]amino}-1-ethyl-N-{[2-(3-thienyl)phenyl]methyl}-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[1-(aminocarbonyl)-4-piperidinyl]amino}-1-ethyl-N-{[2-(4-methyl-3-thienyl)phenyl]methyl}-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
30 4- {[1-(aminocarbonyl)-4-piperidinyl]amino}-1-ethyl-N-[(5-methyl-2-biphenylyl)methyl]-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[1-(aminocarbonyl)-4-piperidinyl]amino}-1-ethyl-N-{[4-methyl-2-(3-thienyl)phenyl]methyl}-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
35 4- {[1-(aminocarbonyl)-4-piperidinyl]amino}-1-ethyl-N-{[2-(3-furanyl)-4-methylphenyl]methyl}-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[1-(aminocarbonyl)-4-piperidinyl]amino}-N-[(3'-chloro-5-methyl-2-biphenylyl)methyl]-1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[*cis*-4-(aminocarbonyl)cyclohexyl]amino}-N-[(2,4-dimethylphenyl)methyl]-1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
40 4- {[*trans*-4-(aminocarbonyl)cyclohexyl]amino}-N-[(2,4-dimethylphenyl)methyl]-1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,

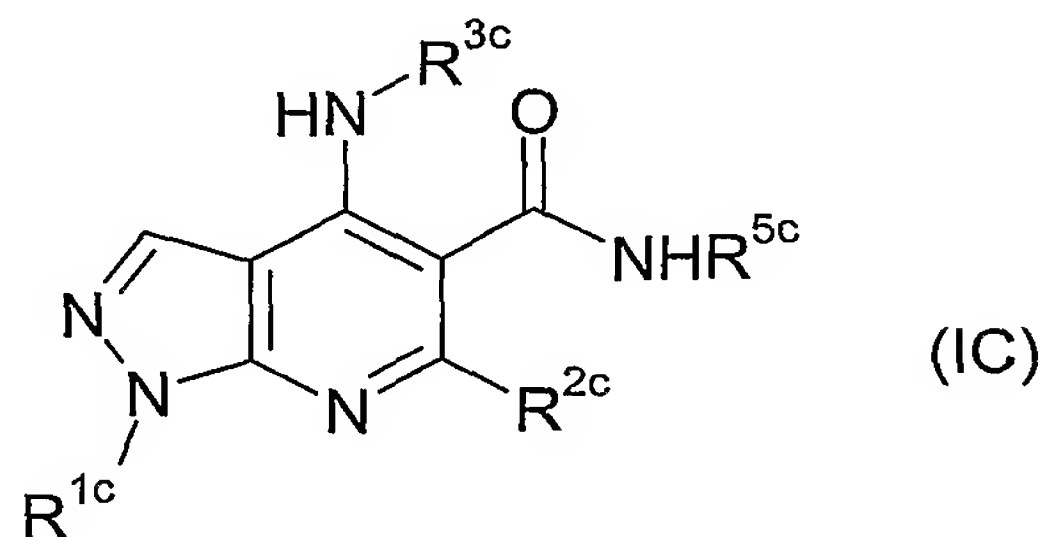
4- {[cis-4-(aminocarbonyl)cyclohexyl]amino}-1-ethyl-N- {[4-(methoxy)phenyl]methyl}-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[4-(aminocarbonyl)cyclohexyl]amino}-1-ethyl-N- {[4-(methylsulfonyl)phenyl]methyl}-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
5 4- {[4-(aminocarbonyl)cyclohexyl]amino}-N-[(2,3-dimethylphenyl)methyl]-1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[4-(aminocarbonyl)cyclohexyl]amino}-N-(2-biphenylmethyl)-1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[4-(aminocarbonyl)cyclohexyl]amino}-N-[(4-chloro-2-fluorophenyl)methyl]-1-ethyl-  
10 1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[4-(aminocarbonyl)cyclohexyl]amino}-N-[(2,3-dichlorophenyl)methyl]-1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[4-(aminocarbonyl)cyclohexyl]amino}-1-ethyl-N- {[2-(methylsulfonyl)phenyl]methyl}-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
15 4- {[4-(aminocarbonyl)cyclohexyl]amino}-N-[(4-chlorophenyl)methyl]-1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[4-(aminocarbonyl)cyclohexyl]amino}-1-ethyl-N- {[4-(methoxy)phenyl]methyl}-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[4-(aminocarbonyl)cyclohexyl]amino}-N-(4-biphenylmethyl)-1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
20 4- {[4-(aminocarbonyl)cyclohexyl]amino}-1-ethyl-N-[(4-hydroxyphenyl)methyl]-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[4-(aminocarbonyl)cyclohexyl]amino}-1-ethyl-N-(phenylmethyl)-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
25 4- {[4-(aminocarbonyl)cyclohexyl]amino}-N-[(2,4-difluorophenyl)methyl]-1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[4-(aminocarbonyl)cyclohexyl]amino}-N-({4-[(difluoromethyl)oxy]phenyl}methyl)-1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[4-(aminocarbonyl)cyclohexyl]amino}-N-(3-biphenylmethyl)-1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
30 4- {[4-(aminocarbonyl)cyclohexyl]amino}-1-ethyl-N-[(4-fluorophenyl)methyl]-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[4-(aminocarbonyl)cyclohexyl]amino}-N-[(4-chloro-2-methylphenyl)methyl]-1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
35 4- {[4-(aminocarbonyl)cyclohexyl]amino}-N-[(4'-chloro-4-biphenyl)methyl]-1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[4-(aminocarbonyl)cyclohexyl]amino}-N- {[2,3-dichloro-6-(hydroxymethyl)phenyl]methyl}-1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[4-(aminocarbonyl)cyclohexyl]amino}-N- {[3,4-bis(methoxy)phenyl]methyl}-1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
40 4- {[4-(aminocarbonyl)cyclohexyl]amino}-N- [(4'-chloro-4-biphenyl)methyl]-1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide, or

4- {[ (3S)-1-(aminocarbonyl)-3-pyrrolidinyl]amino }-N-[(3,4-dimethylphenyl)methyl]-1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide;

or a pharmaceutically acceptable salt thereof.

5

22. A compound of formula (IC) or a salt thereof:



10 wherein:

$R^{1c}$  is ethyl or  $C_2$ fluoroalkyl;

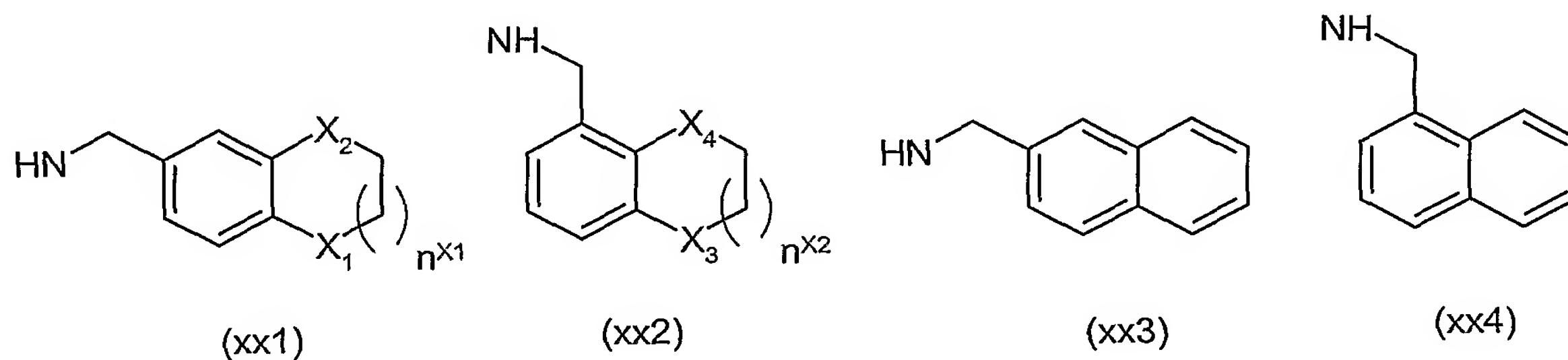
$R^{2c}$  is a hydrogen atom (H) or methyl;

15

$NHR^{3c}$  is a [1-(aminocarbonyl)-4-piperidinyl]amino group, a *cis*-[4-(aminocarbonyl)cyclohexan-1-yl]amino group (including mixtures of configurations wherein the stated *cis* configuration is the major component), or a racemic [4-(aminocarbonyl)cyclohexan-1-yl]amino group;

20

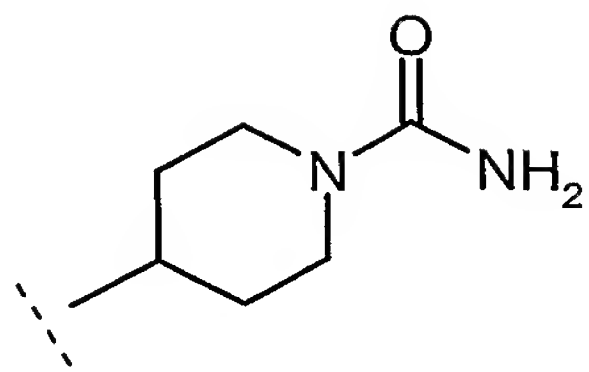
and  $NHR^{5c}$  is of sub-formula (xx1), (xx2), (xx3) or (xx4):



25 wherein  $n^{x1}$  and  $n^{x2}$  independently are 0 or 1, and  $X_1$ ,  $X_2$ ,  $X_3$  and  $X_4$  independently are  $CH_2$  or O, provided that one or both of  $X_1$  and  $X_2$  are  $CH_2$ , and provided that one or both of  $X_3$  and  $X_4$  are  $CH_2$ .

23. A compound or salt as claimed in claim 22, wherein

30  $R^{1c}$  is ethyl;  $R^{2c}$  is a hydrogen atom (H);



$R^{3c}$  is (that is,  $NHR^{3c}$  is a [1-(aminocarbonyl)-4-piperidinyl]amino group); and  
and  $NHR^{5c}$  is of sub-formula (xx1) or (xx2).

5 24. A compound or salt as claimed in claim 22, which is:

4- {[1-(aminocarbonyl)-4-piperidinyl]amino}-N-(2,3-dihydro-1-benzofuran-5-ylmethyl)-  
1-ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide,  
4- {[4-(aminocarbonyl)cyclohexyl]amino}-1-ethyl-N-(5,6,7,8-tetrahydro-1-  
10 naphthalenylmethyl)-1H-pyrazolo[3,4-b]pyridine-5-carboxamide, or  
4- {[4-(aminocarbonyl)cyclohexyl]amino}-N-(2,3-dihydro-1-benzofuran-5-ylmethyl)-1-  
ethyl-1H-pyrazolo[3,4-b]pyridine-5-carboxamide;

or a pharmaceutically acceptable salt thereof.

15

25. A pharmaceutical composition comprising a compound of formula (I) or a  
pharmaceutically acceptable salt thereof, as defined in any of claims 1 to 21, and one or  
more pharmaceutically acceptable carriers and/or excipients.

20 26. A compound of formula (I) or a pharmaceutically acceptable salt thereof, as  
claimed in any of claims 1 to 21, for use as an active therapeutic substance in a mammal.

27. A compound of formula (I) or a pharmaceutically acceptable salt thereof, as  
claimed in any of claims 1 to 21, for in the treatment and/or prophylaxis of an  
25 inflammatory and/or allergic disease in a mammal, or for use in the treatment and/or  
prophylaxis of cognitive impairment or depression in a mammal.

28. The use of a compound of formula (I) or a pharmaceutically acceptable salt  
thereof, as defined in any of claims 1 to 21, in the manufacture of a medicament for the  
30 treatment and/or prophylaxis of an inflammatory and/or allergic disease in a mammal, or  
for the treatment and/or prophylaxis of cognitive impairment or depression in a mammal.

29. The use of a compound of formula (I) or a pharmaceutically acceptable salt  
thereof, as defined in any of claims 1 to 21, in the manufacture of a medicament for the  
35 treatment and/or prophylaxis of asthma, chronic obstructive pulmonary disease (COPD),  
atopic dermatitis, urticaria, allergic rhinitis, allergic conjunctivitis, vernal conjunctivitis,  
eosinophilic granuloma, psoriasis, rheumatoid arthritis, septic shock, ulcerative colitis,  
Crohn's disease, reperfusion injury of the myocardium and brain, chronic

glomerulonephritis, endotoxic shock, adult respiratory distress syndrome, multiple sclerosis, cognitive impairment in a neurological disorder, depression, or inflammatory pain in a human.

- 5     30.     The use as claimed in claim 29, wherein the medicament is for the treatment and/or prophylaxis of chronic obstructive pulmonary disease (COPD), asthma, rheumatoid arthritis, allergic rhinitis, psoriasis or atopic dermatitis in a human.

- 10     31.     A method of treatment and/or prophylaxis of an inflammatory and/or allergic disease, cognitive impairment or depression in a human in need thereof, which method comprises administering to the human a therapeutically effective amount of a compound of formula (I) or a pharmaceutically acceptable salt thereof as defined in any of claims 1 to 21.

- 15     32.     A method as claimed in claim 31, which is a method of treatment and/or prophylaxis of chronic obstructive pulmonary disease (COPD), asthma, rheumatoid arthritis, allergic rhinitis, psoriasis or atopic dermatitis in a human in need thereof.